

SPANISH IEP – B-Level – MECHANICAL ENGINEERING

Freshmen Entering Fall 2006 (Class of 2011)

The academic plan below is a sample to demonstrate one way the dual degree program may be completed in 10 semesters. It is not meant to be a replacement for academic advising. Be sure to touch base with both your language and engineering advisor regularly.

FALL SEMESTER		SPRING SEMESTER		
Year One	CHM 101 Gen. Chem.	3	Gen. Ed. Requirement (ECw)	3
	CHM 102 Lab. For Chem.	1	MTH 142 Calculus II	4
	MTH 141 Calculus I	4	SPA 104 Intermediate Spanish II	3
	PHY 203/273 Elem. Phys I & Lab.	4	PHY 204/274 Elem. Phys. II & Lab.	4
	SPA 103 Intermediate Spanish I	3	EGR 106 Foundations of Engr. II	2
	EGR 105 Foundations of Engr. I	1	16	
16				
Year Two	MCE 201 Graphics for Mec. Eng.	3	CVE 220 Mechanics of Materials	3
	MCE 262 Statics	3	ELE 220 Electric Circuits	3
	PHY205/275 Elem. PHY III & Lab.	4	MCE 263 Dynamics	3
	MTH 243 Calculus of Sev. Var.	3	MTH 244 Differentials Equations	3
	SPA 205 Spanish Lang. & Style	3	SPA 206 Spanish Lang. & Style	3
		16	15	
16				
Year Three	CHE 333 Engineering Materials	3	ECN 201 Micro. Econ. (S)	3
	SPA 312 Advanced Spanish	3	SPA 321 Pre-Internship Spanish	3
	IME 240 Manufacturing Process.	3	MCE 302 Design of Machines	3
	MCE 301 Appl. Mechanical Des.	3	MCE 313 Int. Mech. Engr. Exper.	3
	MCE 341 Thermodynamics	3	MCE 354 Fluid Mechanics	3
	MCE 372 Engineering Analysis	3	MCE 366 System Dynamics	3
18		18		
18				
Suggested Semester Abroad		International Internship Semester		
Year Four	EGR/SPA 412 (Professional Elective/Adv. Tech Spanish)	3	Internship In Spanish-Speaking Country SPA 316-317	3-6
	Gen Ed. Requirement (or swap with a direct equivalent COE or SPA course from another semester)	3		
	Gen Ed. Requirement	3		
	Professional Elective (see notes)	3		
	SPA 325 Intro. To Literary Genre	3		
15				
15				
Year Five	MCE 401 Mechanical Sys. Design	3	EGR 316 Engineering Ethics (L)	3
	MCE 414 Mech. Engr. Exper.	3	MCE 402 Thermal Systems Design	3
	MCE 448 Heat Transfer	3	Professional Elective (within MCE)	3
	Professional Elective (within MCE)	3	Gen Ed. Requirement (EC)	3
	SPA 400-Level Lit. (A)	3	Gen Ed. Requirement	3
15		15		
15				

GEN ED TALLY (See special notes about General Education Requirements on the reverse and consult with the university catalog and your major advisors.)

- EC (COM 100 or WRT 333 recommended): _____
- ECw (WRT 104 or 106 recommended): _____
- L (use EGR 316): _____
- L: _____

- S: _____
- S (use ECN 201): _____
- A (400-level Spanish Lit.): _____
- A (fine art): _____

BASIC LIBERAL STUDIES (GEN ED) REQUIREMENTS (See course catalog for more detail.)

English Communications (EC): 6 credits, one of which must be a writing course (Ecw.) The Dept. of Mechanical Engineering suggests that you take either WRT 104 OR WRT 106 to fulfill the Ecw requirement, and either COM 100 or WRT 333 as your second EC course.

Social Science (S): 6 credits, one of which is fulfilled by ECN 201, which is already required for MCE majors. Consider opting for a second course with a global focus, or a focus on Latin America, Spain or Europe.

Letters (L): 6 credits. Consider taking a Latin American History class such as HIS 180, 381, 382 to fulfill one of your two general education Letters requirements.

Fine Arts and Literature (A):

1. **3 credits of literature:** As an IEP student a 400-level Spanish literature course fulfills the literature portion of the Fine Arts & Literature requirement. (NOTE: This is a special exemption. If you later drop the program but keep your language major you might need to take an additional literature course.)
2. **3 credits of fine arts:** You must choose from music, theater, arts selections as indicated in catalog, or seek prior-approval for a comparable course abroad.

REQUIREMENTS FOR MECHANICAL ENGINEERING MAJOR (See course catalog and department website for more detail.)

EGR 105, 106, 316; CHM 101, 102, 333; CVE 220; ELE 220; IME 240; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; ECN 201; MCE 201, 262, 263, 301, 302, 313, 341, 354, 366, 372, 401, 402, 414, 448; three MCE professional electives (2 of which must be taken at URI) and one additional professional elective (300-, 400- or 500-level course offered by the COE, or the Dept. of: Chemistry, Physics, or Computer Science & Statistics; or a 400- or 500-level mathematics course.) Professional elective courses taken outside URI are subject to URI rules on transfer credit and *require prior written approval*.

REQUIREMENTS FOR IEP SPANISH MAJOR (See course catalog for more detail.)

30 credits in SPA at the 103-level and above, including 312, 316, 317, 321, 325, a 400-level engineering course taught in Spanish, and a 400-level literature course. SPA 321 must be taken prior to the internship experience. SPA/EGR 412 is taken post-internship, or fulfilled by a course abroad with prior approval; this course may also satisfy an engineering professional elective.

SPECIAL NOTES FOR STUDENTS IN THE INTERNATIONAL ENGINEERING PROGRAM

- As a dual degree IEP student, **you are a student of both the College and Arts & Sciences and the College of Engineering**. Be sure to file for graduation (and any other paperwork such as a leave of absence, etc.) with the dean's office of each college.
- You have two academic advisors – one for your language major and one for your engineering major. The Spanish advisor for all IEP students is Dr. Robert Manteiga (roberto@uri.edu). You can check with your engineering department to find out who has been assigned as your engineering advisor.
- **Your general education requirements are determined by the College of Arts & Sciences Basic Liberal Studies Program for the Bachelor of Arts (not B.S.).** Consult the course catalog for details and verify any general education questions with your language advisor.
- As an IEP student, **you are exempt from the one-course-per-discipline rule** for the Letters, Natural Sciences, and Social Sciences Basic Liberal Studies Requirements of the College of Arts & Sciences. This is important to know in the event that you drop the program but still want to pursue your Spanish major as a non-IEP student.
- You are required to complete a six-month professional internship abroad to be considered an IEP student.
- **It is highly recommended that you precede your semester internship with a semester of study abroad through an IEP exchange.** General education requirements, language major courses, free electives and engineering professional electives tend to be the easiest courses to find equivalents for overseas, so you might want to “hold” them for a semester abroad. Consult with your advisors and plan your semesters accordingly.
- **It is YOUR responsibility to stay in contact with your engineering major advisor AND your language major advisor to make sure that you are fulfilling all requirements for both majors and your general education requirements!**